

AMENDMENTS TO THE CLAIMS

1-20. (CANCELED)

21. (ADDED) An implant for replacing the proximal portion of a femur having a substantially intact natural femoral neck and a lateral side opposite the femoral neck, the implant comprising:

- a solid body member having a longitudinal axis, a distal end, and a proximal end, being configured for positioning, in use, in the natural femoral neck such that the proximal end of the solid body member is not distal to a narrowest portion of the femoral neck;
- a head member having a distal end and a proximal substantially-spherical portion configured for positioning in a natural or prosthetic hip socket;
- a joining member positioned between the distal end of the head member and the proximal end of the body member;
- a fastener spaced distally from the joining member and insertable, in use, between the distal end of the body member and the exterior of the lateral side of the femur, substantially in line with the longitudinal axis of the solid body member; and
- wherein no other fasteners pass within or through the femur.

22. (ADDED) The implant of claim 21, wherein the solid body member has a length for positioning, in use, in the natural femoral neck without passage of the distal end through the lateral side of the femur.

23. (ADDED) The implant of claim 21, wherein the body member comprises a collar positioned at the proximal end of the body member and configured for abutting contact, in use, with a proximal surface of the resected femoral neck.

24. (ADDED) The implant of claim 21 wherein the body member, the head member, and the joining member are integrally attached.

25. (ADDED) The implant of claim 21 wherein the body member and the joining member are an integral unit.

26. (ADDED) The implant of claim 21 wherein the joining member comprises at least one morse-tapered portion.
27. (ADDED) The implant recited in claim 21 wherein the fastener comprises a compression screw extending between the exterior lateral side of the femur and the solid body member.
28. (ADDED) The implant of claim 21 further comprising a first surface coating on at least a portion of the body member for promoting bone ingrowth into the coating following implantation.
29. (ADDED) The implant of claim 21, wherein the distal end of the solid body member is configured to connect with the fastener.
30. (ADDED) The implant of claim 21 wherein at least a portion of the body member is substantially circular in cross section.

31. (ADDED) An implant for replacing the proximal portion of a femur having a substantially intact natural femoral neck and a lateral side opposite the femoral neck, the implant comprising:
- a solid body member having a longitudinal axis, a distal end, and a proximal end, being configured for positioning, in use, in the natural femoral neck such that the proximal end of the solid body member is at or proximal to a narrowest portion of the femoral neck and the distal end of the solid body member extends distal to the narrowest portion of the femoral neck;
 - a head member having a distal end and a proximal substantially-spherical portion configured for positioning in a natural or prosthetic hip socket;
 - a joining member positioned between the distal end of the head member and the proximal end of the body member;
 - a fastener spaced distally from the joining member and insertable, in use, between the distal end of the body member and the exterior of the lateral side of the femur, substantially in line with the longitudinal axis of the solid body member; and
- wherein no other fasteners pass within or through the femur.
32. (ADDED) The implant of claim 31, wherein the solid body member has a length for positioning, in use, in the natural femoral neck without passage of the distal end through the lateral side of the femur.
33. (ADDED) The implant of claim 31, wherein the body member comprises a collar positioned at the proximal end of the body member and configured for abutting contact, in use, with a proximal surface of the resected femoral neck.
34. (ADDED) The implant of claim 31 wherein the body member, the head member, and the joining member are integrally attached.
35. (ADDED) The implant of claim 31 wherein the body member and the joining member are an integral unit.
36. (ADDED) The implant of claim 31 wherein the joining member comprises at least one morse-tapered portion.

37. (ADDED) The implant recited in claim 31 wherein the fastener comprises a compression screw extending between the exterior lateral side of the femur and the solid body member.
38. (ADDED) The implant of claim 31 further comprising a first surface coating on at least a portion of the body member for promoting bone ingrowth into the coating following implantation.
39. (ADDED) The implant of claim 31, wherein the distal end of the solid body member is configured to connect with the fastener.
40. (ADDED) The implant of claim 31 wherein at least a portion of the body member is substantially circular in cross section.